

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Presented) A roll barrel for processing a web-shaped material, said roll barrel comprising:

a gray cast iron core; and

a white cast iron outer shell,

said roll barrel being provided close to a final contour of a finished component, and not as a semi-finished component, through continuous casting from a metal alloy solidified in said white cast iron outer shell of the roll barrel outside of thermodynamic equilibrium,

said roll barrel having a circular cylindrical shape along its length,

the metal alloy being solidified in the gray cast iron core stably, and the metal alloy being chilled in said white cast iron outer shell in its crystal lattice by rapid cooling.

2. (Cancelled)

3. (Previously Presented) The roll barrel of claim 1 wherein the metal alloy is not a wrought alloy.

4. (Previously Presented) The roll barrel of claim 1 wherein the metal alloy is a casting iron alloy.

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Previously Presented) The roll barrel of claim 1 wherein the outer shell exhibits a thickness between 1% and 20% of the mean distance between the surface of the shell and a central longitudinal axis of the roll barrel.

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Previously Presented) The roll barrel of claim 1 wherein the roll barrel is a compound roll barrel having fibers extending in the casting direction of the roll barrel and cast-in by the metal alloy.

13. (Previously Presented) The roll barrel of claim 1 wherein said roll barrel is an abrasion-proof casting body for at least one of milling, grinding, or chafing.

14. (Cancelled)

15. (New) A roll barrel of a roller for treating web-shaped materials, said roll barrel comprising:

a white cast iron outer shell comprising a metal alloy having a crystal lattice structure formed by rapid cooling; and

a gray cast iron core comprising said metal alloy and solidified in said white cast iron outer shell of the roll barrel formed through continuous casting of said metal alloy in said white cast iron outer shell of the roll barrel outside of thermodynamic equilibrium,

wherein said metal alloy in said gray cast iron core is stably solidified, and

wherein said roll barrel of said roller has a circular cylindrical shape along its length.